

What is claimed is:

- 1 1. A method for generating audio sounds on a radio frequency
2 audio sound generator from a remote audio signal source, the method comprising the
3 steps of:
 - 4 providing a housing;
 - 5 supplying an audio signal storage media in the housing;
 - 6 generating audio signals from the audio signal storage media;
 - 7 generating a first frequency radio frequency carrier signal from an
8 oscillator;
 - 9 modulating the audio signals on the first frequency radio frequency
10 carrier signal; and
 - 11 transmitting the first frequency radio frequency carrier signal with the
12 modulated audio signals to a radio frequency audio signal demodulator in a remote
13 radio frequency receiver for broadcast of the audio signals.
- 1 2. The method of claim 1 further comprising the steps of:
 - 2 providing an audio generator for generating the audio signals and an
3 audio transmitter for transmitting the carrier signal and the modulated audio signal in
4 separate housings.
- 1 3. The method of claim 2 further comprising the step of:
 - 2 coupling the audio signal generator and the audio transmitter in signal
3 communication.
- 1 4. The method of claim 3 wherein the step of coupling further
2 comprises the steps of:
 - 3 providing conductors; and
 - 4 providing a connector coupled to one end of the conductors, the
5 connector connectable to one of the housings.

1 5. The method of claim 1 further comprising:
2 the frequency radio frequency carrier signal is within the FM radio frequency band.

1 6. The method of claim 1 wherein the step of generating a first
2 frequency radio frequency carrier signal further comprises the step of:
3 selecting one of a plurality of radio frequency carrier signals as the first
4 frequency carrier signal.

1 7. The method of claim 1 further comprising the steps of:
2 providing a cable carrying first and second stereo channel signal
3 conductors and a signal ground conductor, the first and second conductors connected
4 at one end to a stereo encoder and at the other end to a connector; and
5 electrically connecting the connector to an audio output connector on
6 the audio signal generator.

1 8. The method of claim 7 further comprising the steps of:
2 providing an antenna conductor in the cable; and
3 connecting the antenna conductor to the transmitter in the housing.

1 9. The method of claim 7 further comprising the step of:
2 providing a recess externally in the housing, the recess adapted for
3 removably receiving the connector when the connector is not connected to the audio
4 signal generator.

1 10. The method of claim 9 further comprising the step of:
2 forming the cable in a hand carrying loop when the connector is
3 mounted in the recess on the housing.

1 11. The method of claim 8 further comprising the step of:
2 terminating the opposite end of the antenna conductor in the cable
3 disconnected from the connector.

1 12. The method of claim 8 further comprising steps of:
2 providing a plurality of band pass filters in the housing connected
3 between the first and second stereo channel conductors and the signal ground
4 conductor in the cable and the stereo encoder in the housing.

1 13. An apparatus for generating sounds on a radio frequency audio
2 generator from a remote audio signal storage media according to the method of claim
3 1 comprising:

4 a housing;
5 an audio signal generator in the housing for generating audio signals
6 from the audio signal storage media;
7 conductors communicating the audio signals from the remote audio
8 signal storage media to the housing;
9 an oscillator generating a first frequency radio frequency carrier signal;
10 a modulator coupled to the oscillator for modulating the audio signals
11 with the first frequency radio frequency carrier signal; and
12 a transmitter coupled to the modulator for transmitting the first
13 frequency radio frequency carrier signal with the modulated audio signals to a radio
14 frequency demodulator in a remote radio frequency receiver for broadcast of the
15 audio signals.

1 14. The apparatus of claim 13 further comprising:
2 a multi-conductor cable extending from the housing and carrying the
3 conductors; and

4 the conductors including first and second conductors for first and
5 second stereo channel audio signals, a signal ground conductor and the antenna
6 conductor.

1 15. The apparatus of claim 14 further comprising;

2 a plurality of band pass filters carried in the housing, one band pass
3 filter coupled to each of the first and second conductors and to the signal ground
4 conductor.

1 16. The apparatus of claim 14 wherein the connector further
2 comprising:

3 a connector coupled to the free end of the cable, the connector adapted
4 for coupling the first and second conductors and the signal ground conductor to an
5 audio player.

1 17. The apparatus of claim 14 further comprising:
2 a recess formed externally in the housing for removable receiving the
3 jack.

1 18. A wireless audio transmitter apparatus coupling an audio
2 player having an audio signal output to an audio receiver capable of outputting audio
3 signals at a first frequency, the apparatus comprising:

4 a portable housing;
5 a connector coupled to the housing and adapted for coupling the audio
6 output signal from an audio player to a radio frequency oscillator carried in the
7 housing, the radio frequency oscillator generating a radio frequency carrier;

8 a radio frequency modulator carried in the housing for modulating the
9 audio signal output of the audio player on the radio frequency carrier; and

10 an antenna carried on the housing and coupled to the modulator for
11 wirelessly transmitting the modulated signal to a remote audio receiver.

1 19. The apparatus of claim 18 further comprising:
2 a radio frequency selector, coupled to the oscillator, for selecting one of
3 a plurality of different radio frequency carrier signals.

1 20. The apparatus of claim 19 further comprising:

2 the frequency selector switch carried externally on the housing.

1 21. The apparatus of claim 20 wherein the connector comprises:
2 a multi-conductor cable extending from the housing and carrying first
3 and second conductors for first and second stereo channel audio signals, a third
4 conductor for a signal ground, and a fourth conductor for the antenna.

1 22. The apparatus of claim 21 further comprising:
2 a plurality of band pass filters carried in the housing, one band pass
3 filter coupled to each of the first, second and third conductors.

1 23. The apparatus of claim 21 wherein the connector further
2 comprising:
3 a jack coupled to the free end of the cable, the jack adapted for
4 coupling the first, second and third stereo channel conductors to an audio player.

1 24. The apparatus of claim 23 further comprising:
2 a recess formed externally in the housing for removable receiving the
3 jack.

1 25. The apparatus of claim 24 wherein:
2 the cable forms a hand carrying loop when the jack is mounted in the
3 recess on the housing.

1 26. A method for generating audio sounds on a radio frequency
2 audio sound generator from a remote audio signal source, the method comprising the
3 steps of:
4 providing a first housing;
5 supplying an audio signal storage media in the first housing;
6 generating audio signals from the audio signal storage media in the first
7 housing;

8 providing a second housing;
9 generating a first frequency radio frequency carrier signal from an
10 oscillator carried in the second housing;
11 connecting the first housing to the second housing in electrical signal
12 communication;
13 modulating the audio signals onto the first frequency radio frequency
14 carrier signal; and
15 transmitting the first frequency radio frequency carrier signal with the
16 modulated audio signals to a radio frequency audio signal demodulator in a remote
17 radio frequency receiver for broadcast of the audio signals.